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DATE: Thursday, April 01, 2004

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<input type="checkbox"/>	L1	atph.clm. or atp-h.clm. or (atp near2 h).clm.	4
<input type="checkbox"/>	L2	atph. or atp-h or (atp near2 h) not l1	116
<input type="checkbox"/>	L3	atph or atp-h or (atp near2 h) not l1	135
<input type="checkbox"/>	L4	l3 same (subunit or sub-unit or domain or fragment or portion or region or section or function or functional or functionally)	26
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<input type="checkbox"/>	L6	(atpase or atp-ase).ti.	26

END OF SEARCH HISTORY

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- ☐ 6. [6492181](#). 16 Jun 00; 10 Dec 02. AtPase assay. White; Peter. 436/103; 435/4 436/534 436/800 436/804. G01N033/00 G01N033/546 C12Q001/00.
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- ☐ 7. [6485935](#). 11 Jan 00; 26 Nov 02. Structure of the ankyrin binding domain of a .alpha.-Na, K-ATPase. Morrow; Jon S., et al. 435/69.1; 435/189 435/193 435/212 435/252.3 435/320.1 435/69.7 530/328 530/330 530/362 530/364 536/23.1 536/23.2. C12P021/06 C12P021/02 C12N009/02 C07K001/00 C07H021/04.
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Terms	Documents
(atpase or atp-ase).ti.	26

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L6: Entry 6 of 26

File: USPT

Dec 10, 2002

US-PAT-NO: 6492181

DOCUMENT-IDENTIFIER: US 6492181 B1

TITLE: Atpase assay

DATE-ISSUED: December 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
White, Peter	Montreal			CA

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Boehringer Ingelheim (Canada) Ltd.	Laval			CA	03

APPL-NO: 09/ 595833 [PALM]

DATE FILED: June 16, 2000

PARENT-CASE:

This application claims the benefits of priority application 60/139,629 filed Jun. 17, 1999.

INT-CL: [07] G01 N 33/00, G01 N 33/546, C12 Q 1/00

US-CL-ISSUED: 436/103; 436/534, 436/800, 436/804, 435/4

US-CL-CURRENT: 436/103; 435/4, 436/534, 436/800, 436/804

FIELD-OF-SEARCH: 436/103, 436/800, 436/804, 436/534, 435/4

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

☐ 4568649

February 1986

Bertoglio-Matte

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO

PUBN-DATE

COUNTRY

US-CL

WO 99/57283

July 1992

WO

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ART-UNIT: 1627

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ASSISTANT-EXAMINER: Chaudhry; Mahreen

ATTY-AGENT-FIRM: Raymond; Robert P. Pocchiari; Susan K. Devlin; Mary-Ellen M.

ABSTRACT:

The present invention uses the principle that phosphomolybdate binds to hydrophobic surfaces to isolate the phosphomolybdate complex from other phosphate-containing molecules and further uses the SPA concept to bring a radiolabeled phosphomolybdate complex in close contact with a scintillant for measurement by scintillation counting. Generally, the present invention provides an assay for detecting and measuring the amount of orthophosphate (P_i) in an aqueous reaction mixture, wherein the amount of P_i released is separated from the reaction mixture by: adding a solution of molybdate to the reaction mixture to form a phosphomolybdate complex; and contacting the phosphomolybdate complex with a hydrophobic surface, wherein the surface is capable of being separated from the aqueous reaction mixture to allow measurement of the P_i . Particularly, this invention provides an assay for measuring the ATPase activity of enzymes, more particularly, the HPV E1 helicase.

18 Claims, 26 Drawing figures

Set	Items	Description
S1	0	PASTEURELLAC? AND ATPG?
S2	0	PASTEURELLELLAC?
S3	46868	PASTEURELLA?
S4	40	S3 AND (ATPG OR ATPASEG OR F1)
S5	16	S4/1999:2004
S6	1	S3 AND ATPG?
S7	24	S4 NOT S5
S8	873	'ATPG' OR 'ATPG GENE' OR 'ATPGAMMA' OR 'ATPGAMMA S'
S9	283	S8/2000:2004
S10	590	S8 NOT S9
S11	0	S10 AND PASTEUR?
S12	0	S10 AND HAEMOPH?
S13	0	S10 AND HEMOPH?
S14	0	S10 AND ACTINOBACIL?
S15	0	S10 AND PASTEURE?

?s s3 and s8